

KEYSIGHT TECHNOLOGIES (AGILENT HP)

MSO8104A

The Keysight (Agilent) Infiniium MSO8104A is a 1 GHz, 4+16 channel mixed signal oscilloscope offering high-performance signal analysis powered by MegaZoom technology. Designed for embedded system debug, it features up to 128 Mpts of deep memory, an open Windows XP Pro environment, and standard touchscreen operation to enable detailed time-correlated viewing across 20 channels.

SPECIFICATIONS

Vertical System - Analog Channels

Analog Bandwidth	1 GHz
Calculated Rise Time	350 ps
Input Channels	4 analog channels
Input Coupling	1 MOhm (AC, DC), 50 Ohm (DC)
Vertical Resolution	8 bits (up to 12 bits with high resolution mode)

Vertical System - Digital Channels

Digital Channels	16 digital channels
Threshold Groupings	Two groups of 8 channels (D0-D7, D8-D15)
Threshold Selections	TTL, CMOS, ECL, PECL, User-defined
User-Defined Threshold Range	+/-8.0 V in 10 mV increments
Threshold Accuracy	+/- (100 mV + 3% of threshold setting)
Maximum Input Voltage (Digital)	+/-40 V peak
Minimum Voltage Swing	500 mV peak-to-peak
Input Impedance (Digital)	100 kOhm +/-2% (~8 pF)
Channel-to-Channel Skew (Digital)	2 ns typical

Horizontal System & Acquisition

Real-Time Sample Rate - 2 Channels	4 GSa/s
Real-Time Sample Rate - 4 Channels	2 GSa/s
Maximum Memory Depth - Standard	1 Mpts (per channel), 2 Mpts (interleaved)
Maximum Memory Depth - Optional	Up to 128 Mpts (interleaved), 64 Mpts (per channel)

Acquisition Modes

Real-Time Mode	Yes
Equivalent-Time Mode	Yes (up to 250 GSa/s)
Average Mode	Yes (selectable from 2 to 4096)
High-Resolution Mode	Yes (up to 12 bits)

Trigger System	
Trigger Modes	Auto, Triggered, Single
Display & User Interface	
Operating System	Windows XP Pro
Connectivity & Interfaces	
LAN Port Type	10/100Base-T RJ-45
GPIB Interface	IEEE-488 standard
Power & Environmental	
Storage Temperature	-40 to +70 deg C
Operating Humidity	Up to 95% relative humidity at +40 deg C (non-condensing)
Operating Altitude	Up to 4,600 m (15,000 ft)
Maximum Power Consumption	440 W
Vibration Compliance	MIL-PRF-28800F Class 3 random
Ordering Information & Options	
Standard Included Probes	4 x Agilent 10073C 10:1 passive probes, 1 x 16-channel digital probe kit
Active Probe Interface Support	InfiniiMax active probe interface (Autoprobe interface)
Computer System	
LXI Compliance	Class C
TECHNOLOGY	
Mixed Signal Oscilloscope	
APPLICATIONS	
Embedded debug, mixed signal design, protocol decoding, and high-speed signal analysis	

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.